

FIG. 1

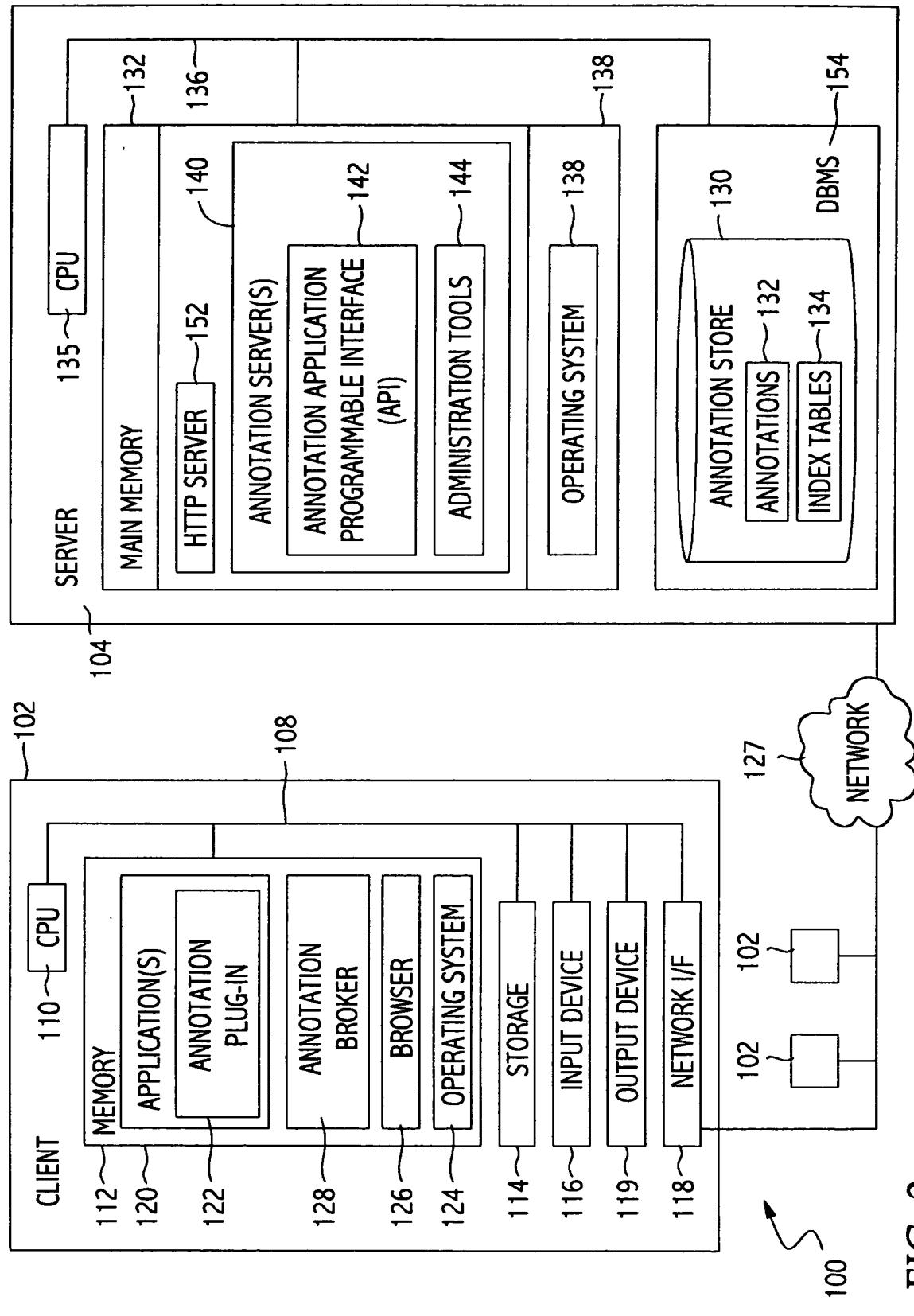


FIG. 2

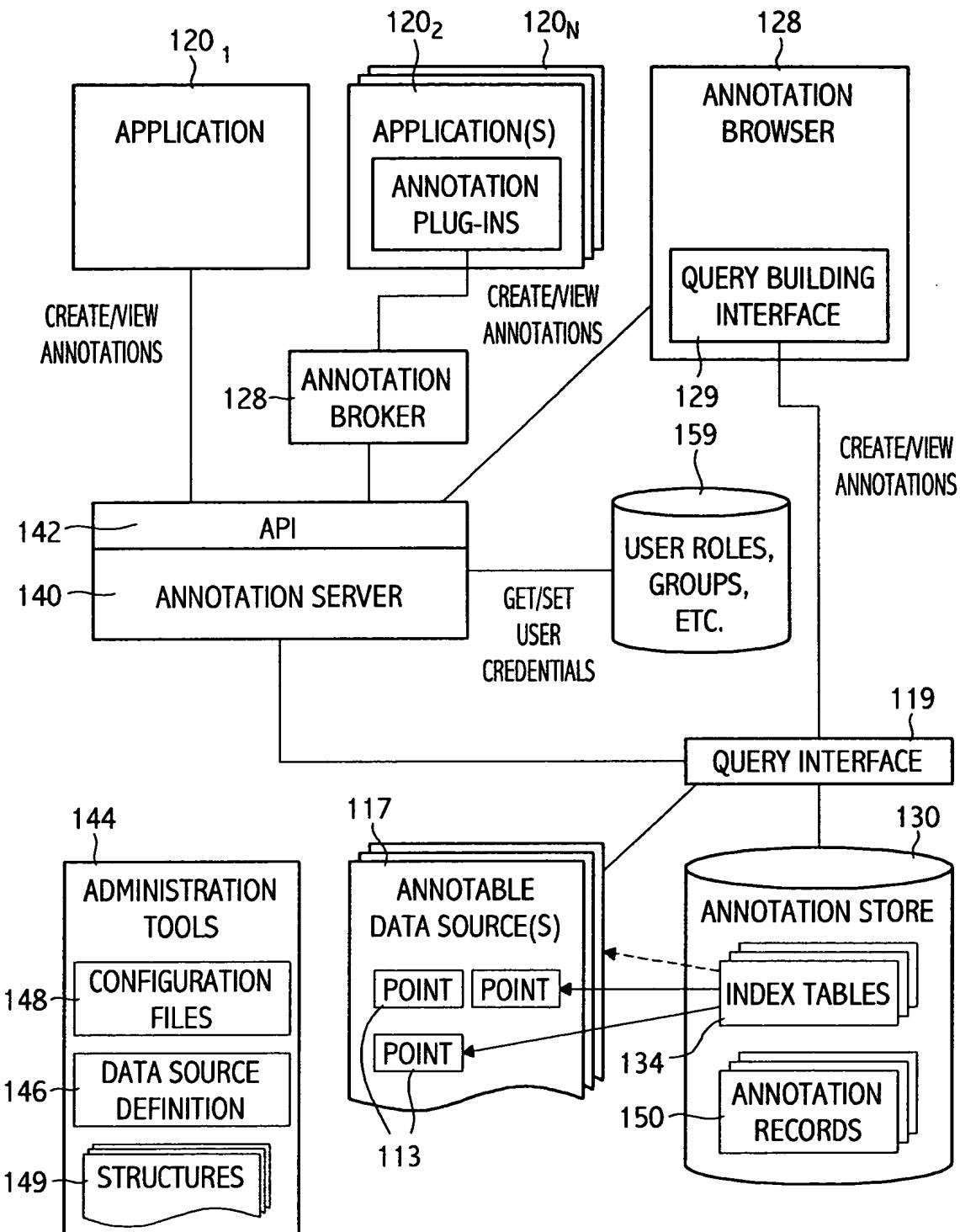


FIG. 3A

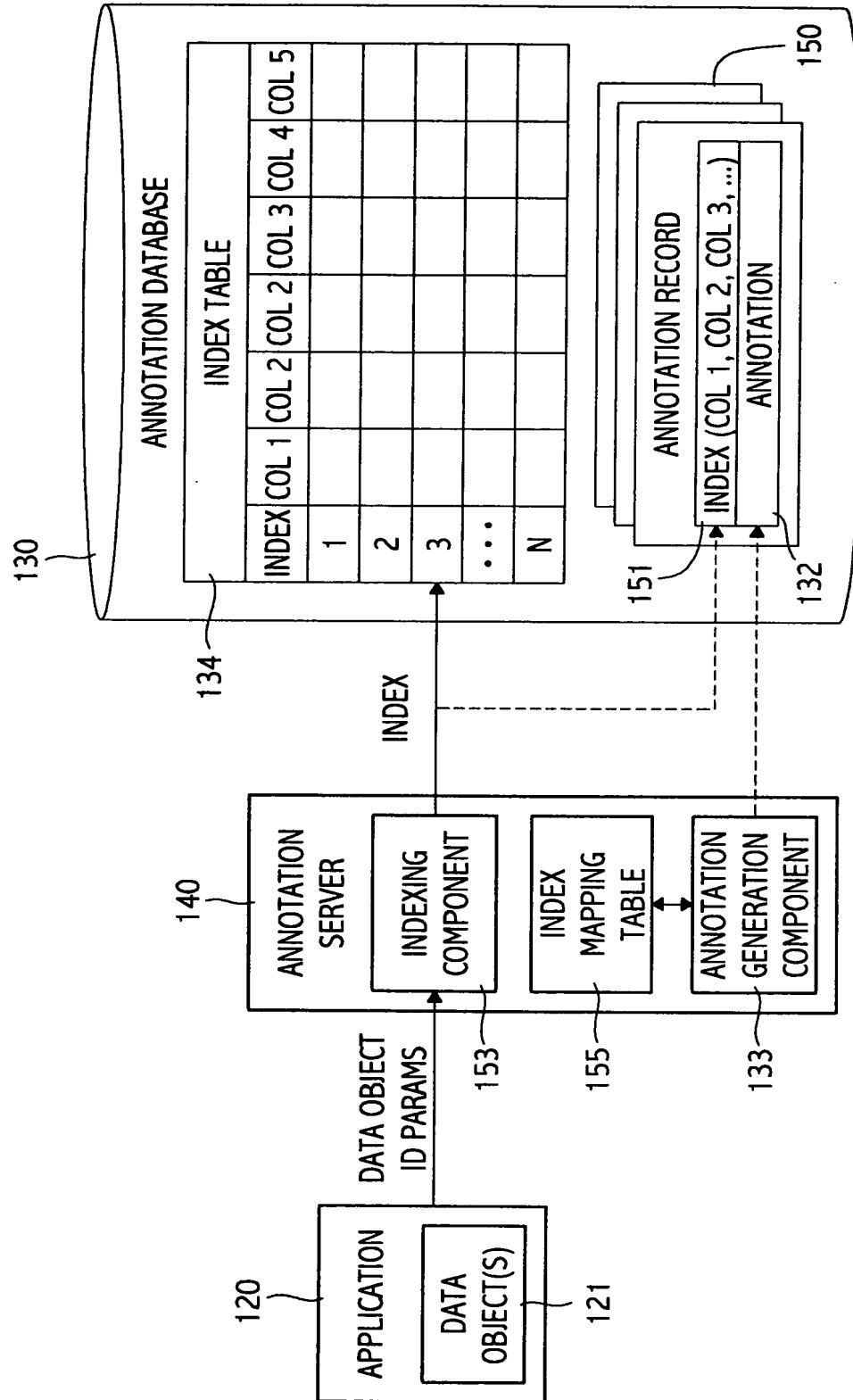


FIG. 3B

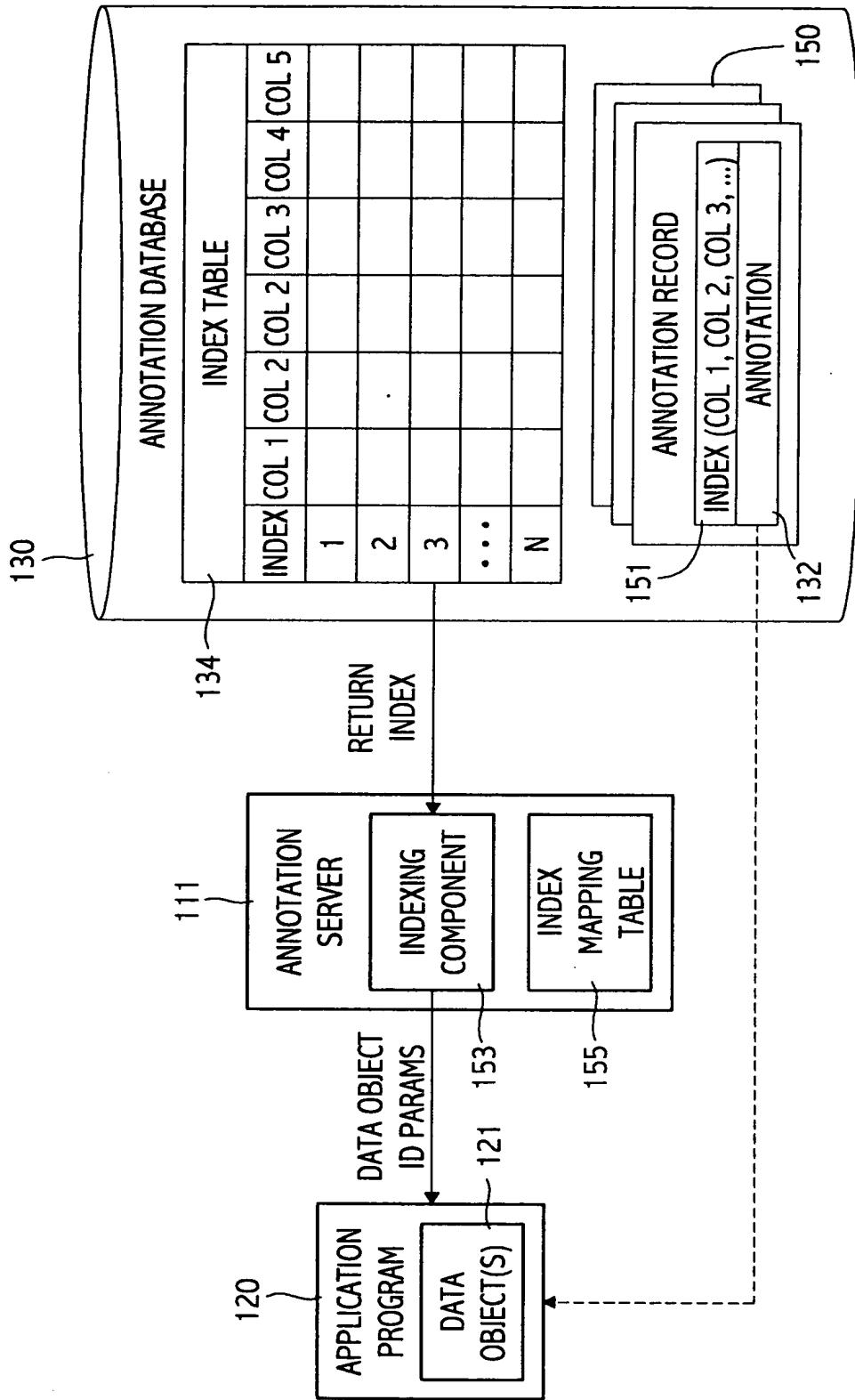


FIG. 3C

API FUNCTION	DESCRIPTION
QueryRoles	Get a list of roles for the user.
SetRole	Set the active set of roles for the session.
Query Structure Names	Given the data source type and subtype of the target documents and all of the points in those documents the user wants to annotate, return the list of available structures.
QueryStructureTransforms	Given an annotation type returned from QueryStructureNames API, return an array of URLs to XSL transforms.
QueryPoints	Given a GUID, and list of DataSourceVersions, return a list of data sources and the points in the data sources.
QueryAnnotationIDS	Given a list of search criteria, return an array of annotation GUIDs that match the criteria.
GetAnnotation	Return the annotation data for a given GUID
CreateAnnotation	Create a new annotation with provided data and access control information
UpdateAnnotation	Replace specific fields in an annotation which results in a new version of the annotation
DeleteAnnotation	Delete (or hide) the specified annotation
AddPoint	Take an existing Annotation and add a new annotated point to it
DeletePoint	Delete a point from an annotation
QueryAllowedPointTypes	Return the allowed point types and subtypes given a data source type and subtype
QueryDataSourceSubtypes	Return the configured data source subtypes given a data source type

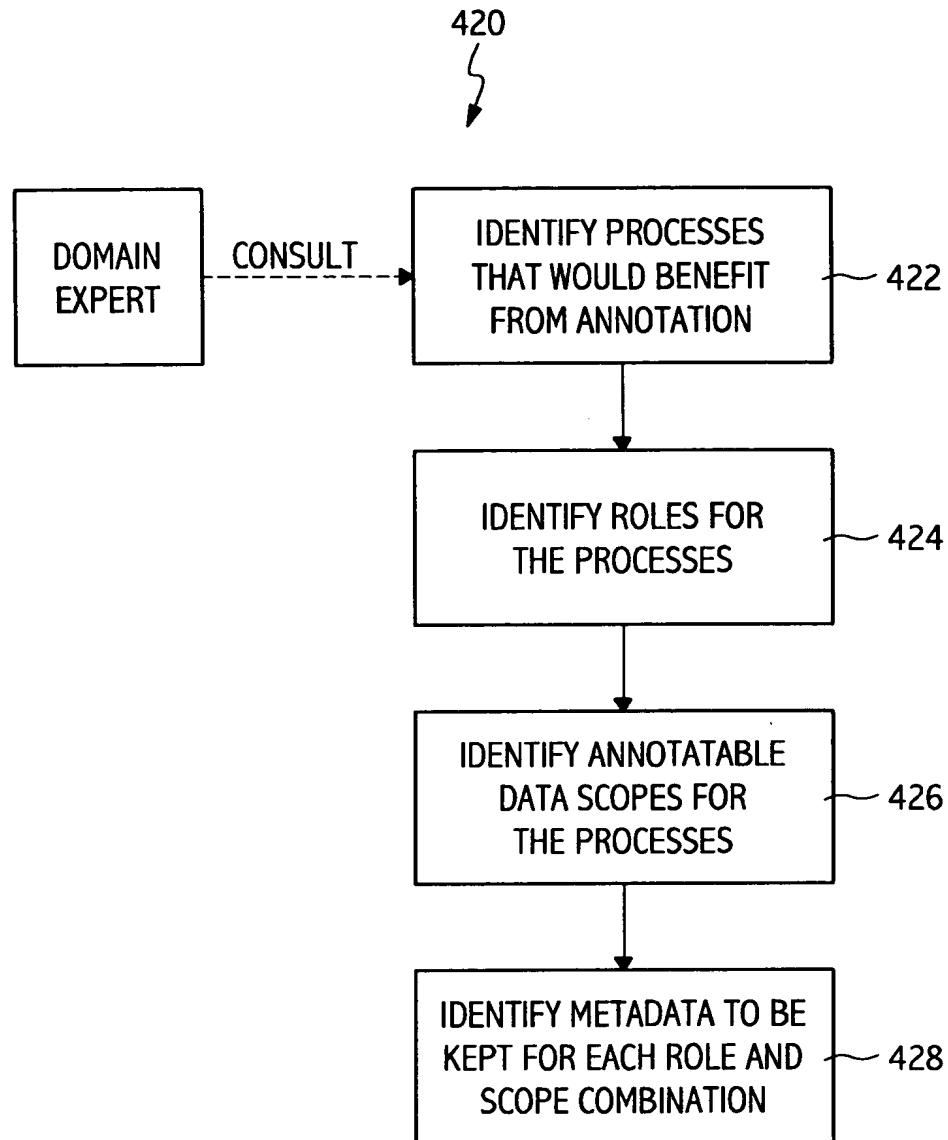


FIG. 4A

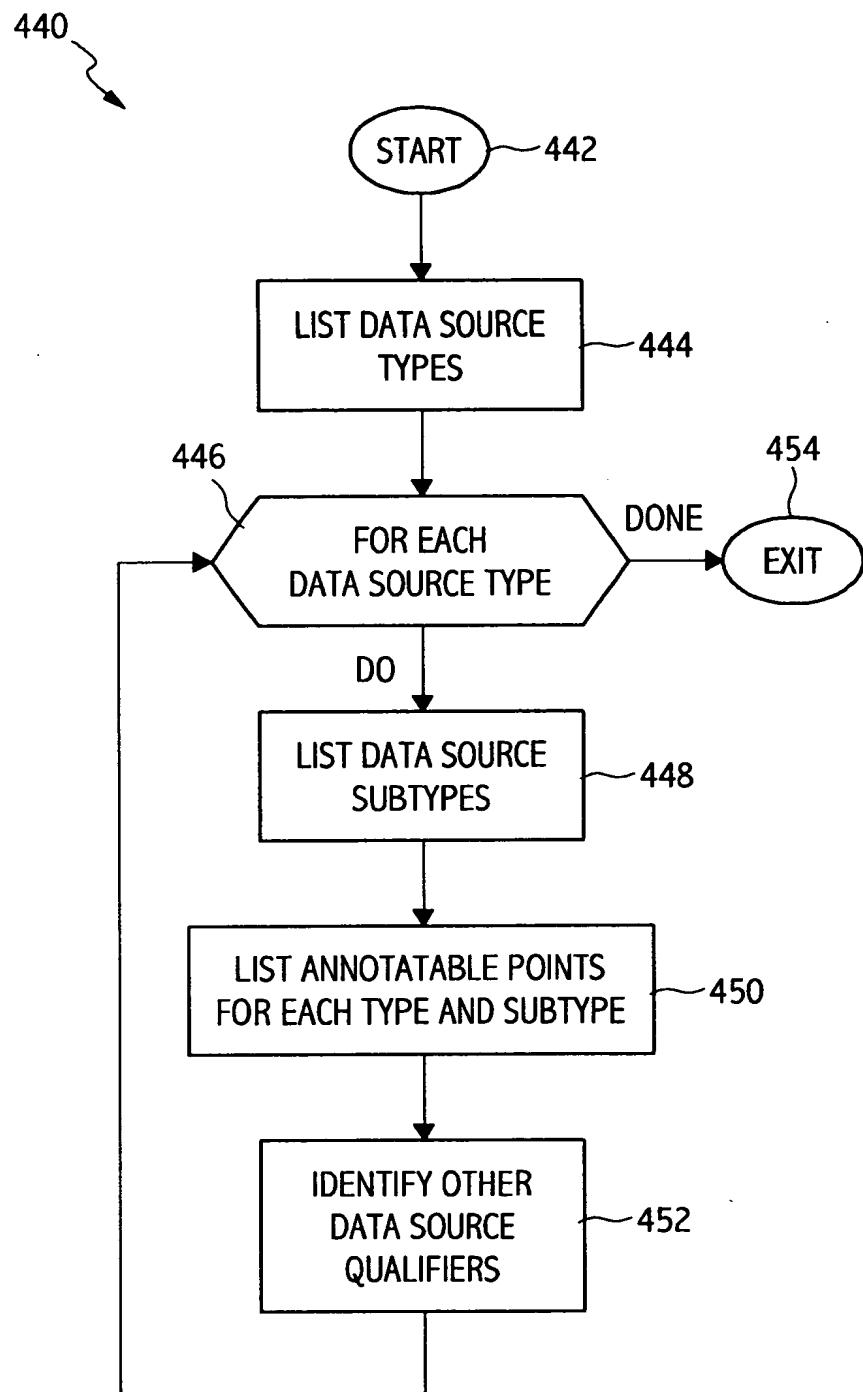


FIG. 4B

Data Source Type	Point Type	Meta Information
Relational (and Excel)	Table	Table Name
	Column	Table Name, Column Name
	Cell	Table Name, Key, Column Name
	Row	Table Name, Key
Word Document/HTML file	Document	Path
	Word Range	Path, Start character, End character
Spotfire File	Spot	Context, View, Marked Record, Column
	Cluster	Context, View, Marked Record, Column
	Row	Context, View, Marked Record
	Column	Context, View, Column
	File	Context, View
Pdf (requires Adobe Framemaker)	Text	Page, Start word, End word, Start of set, End of set
	Graphic	Page, Top, Left, Bottom, Right

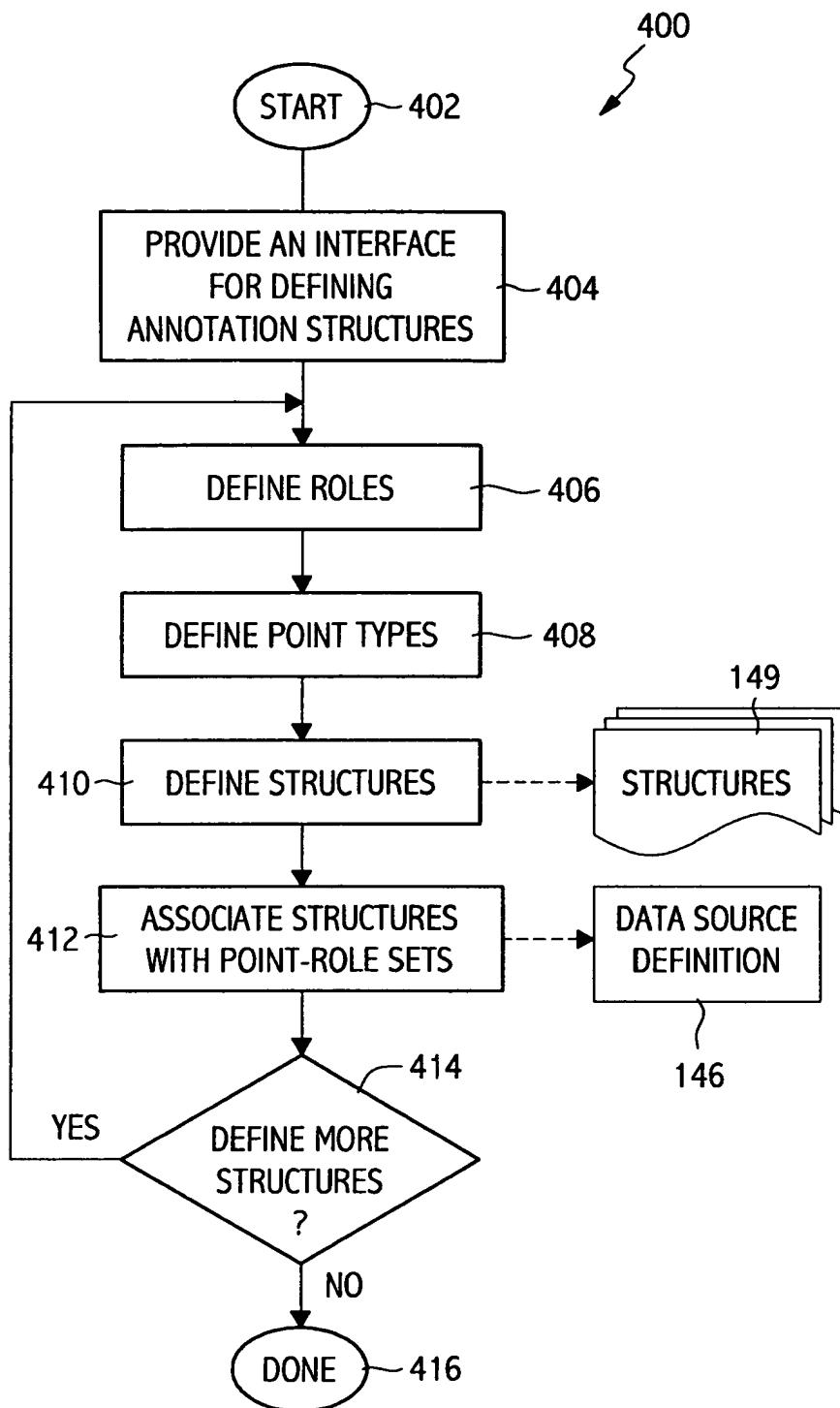


FIG. 4D

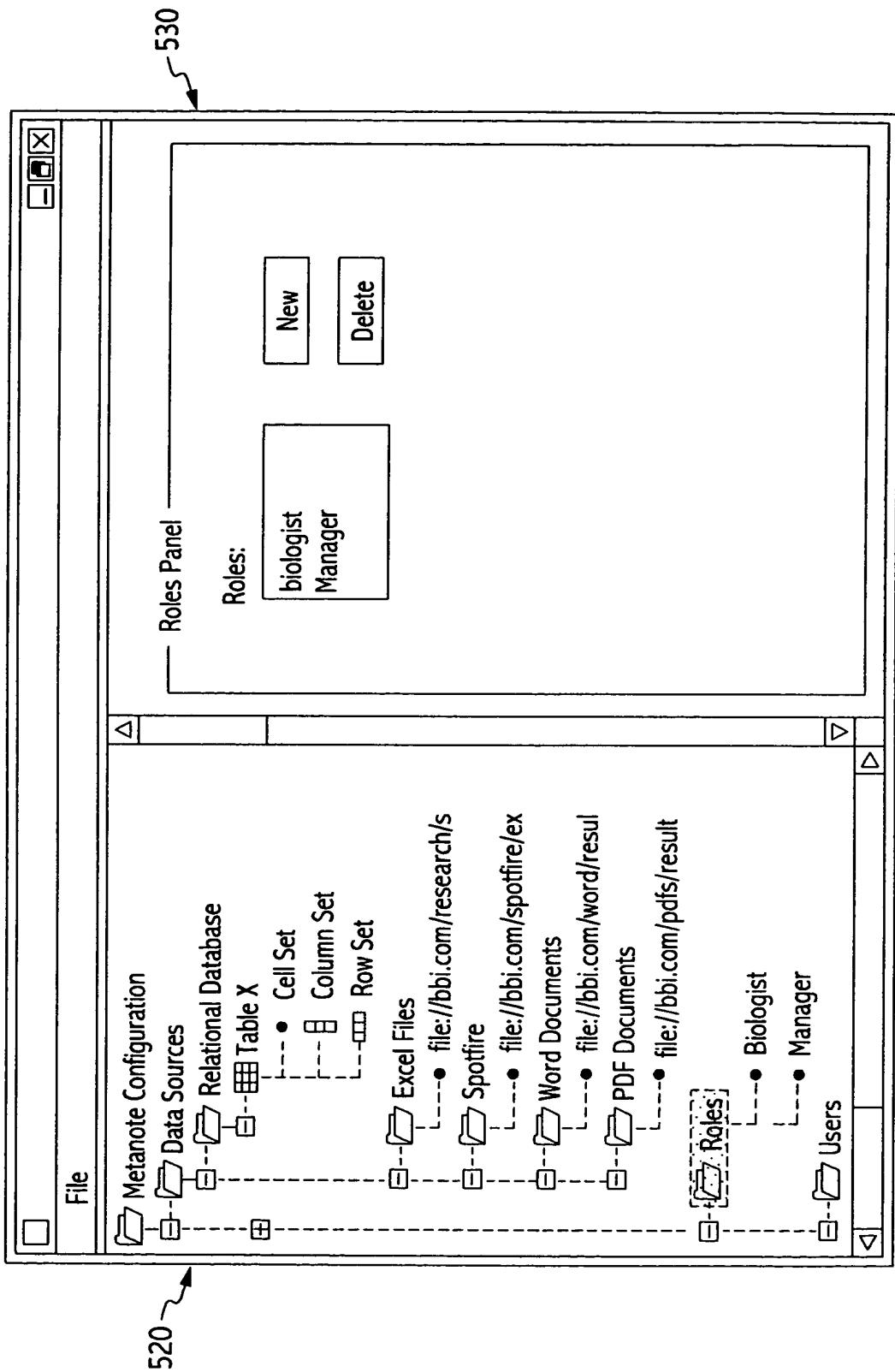


FIG. 5A

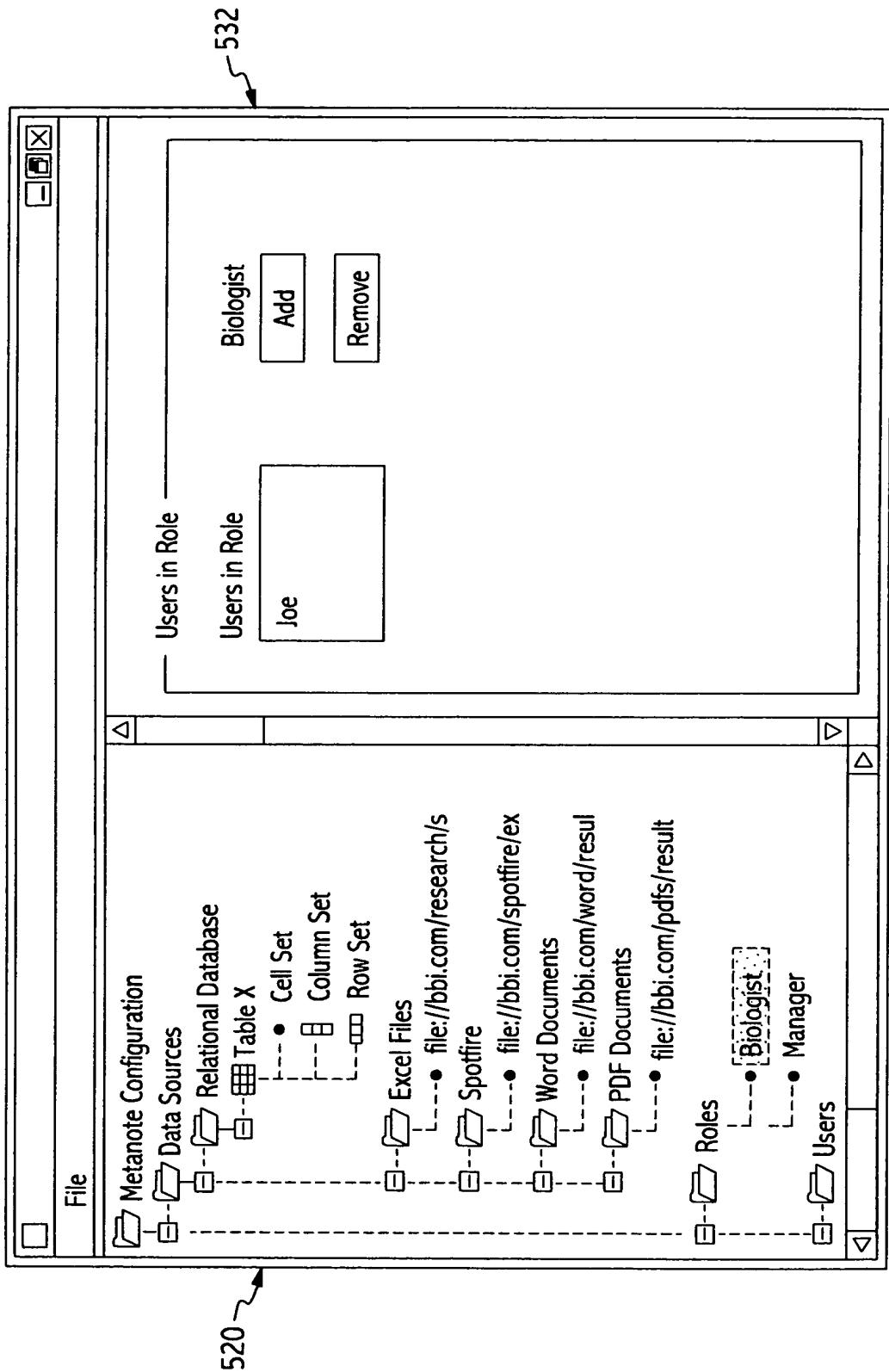


FIG. 5B

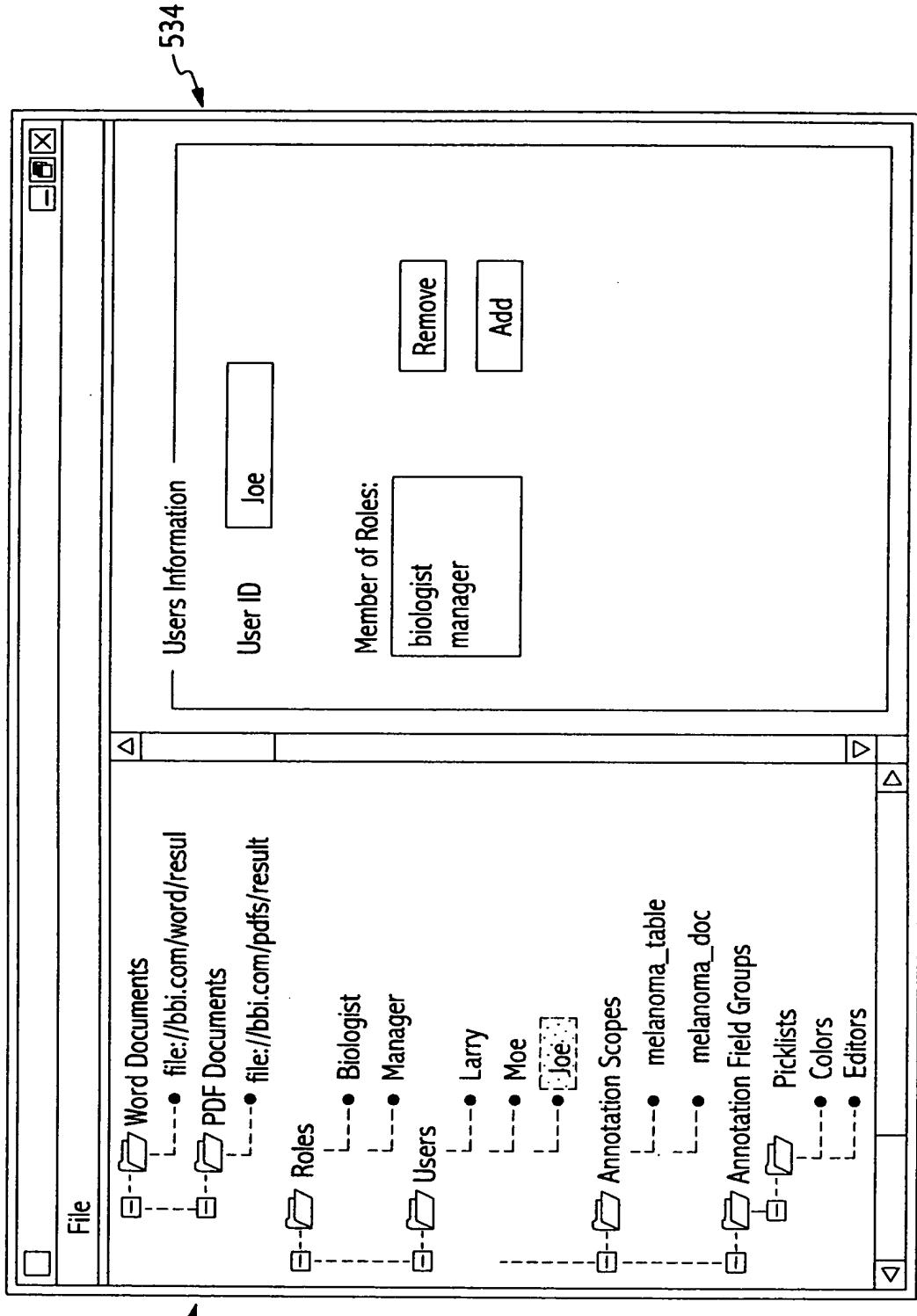


FIG. 5C

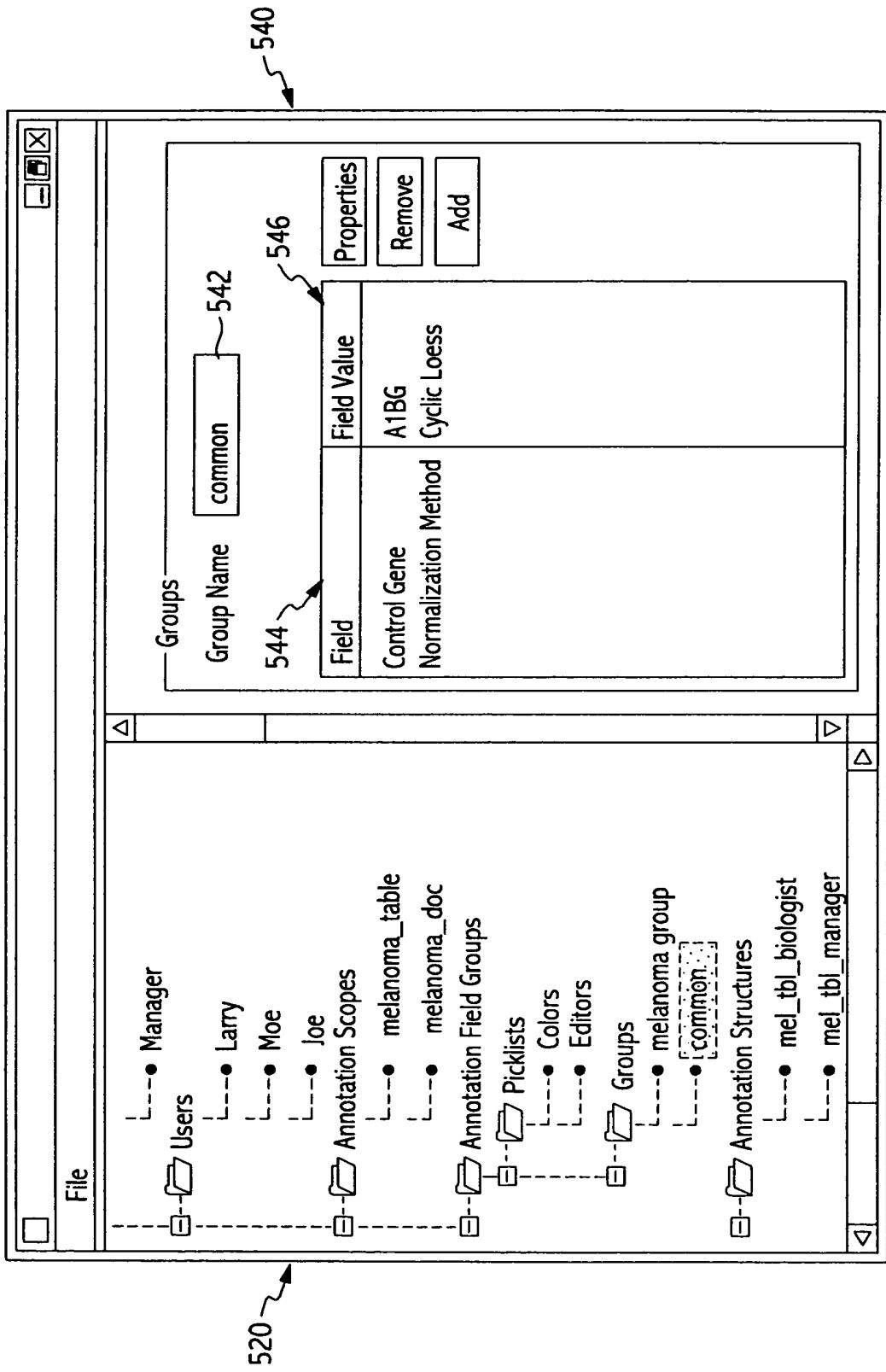


FIG. 5D

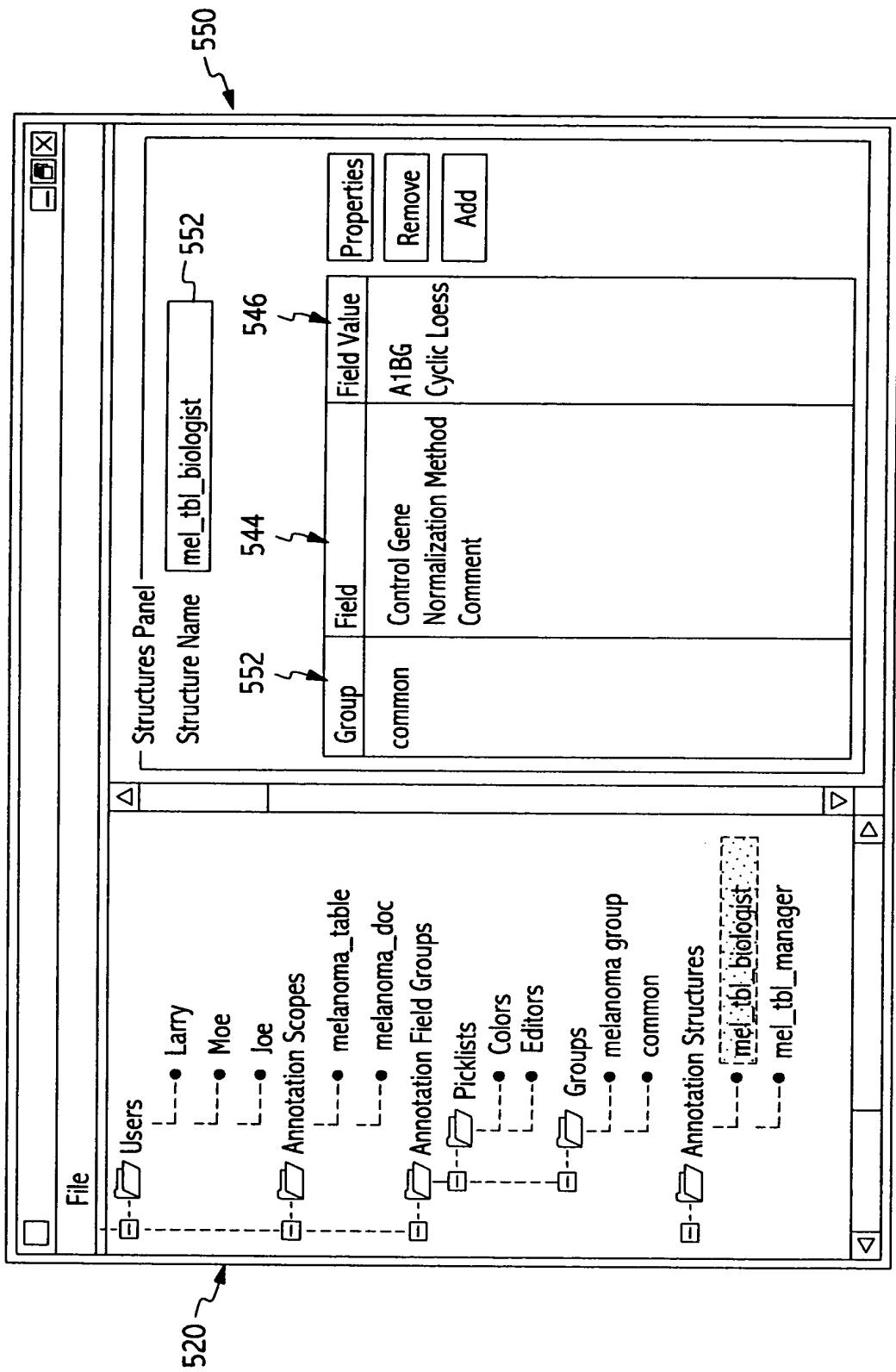


FIG. 5E

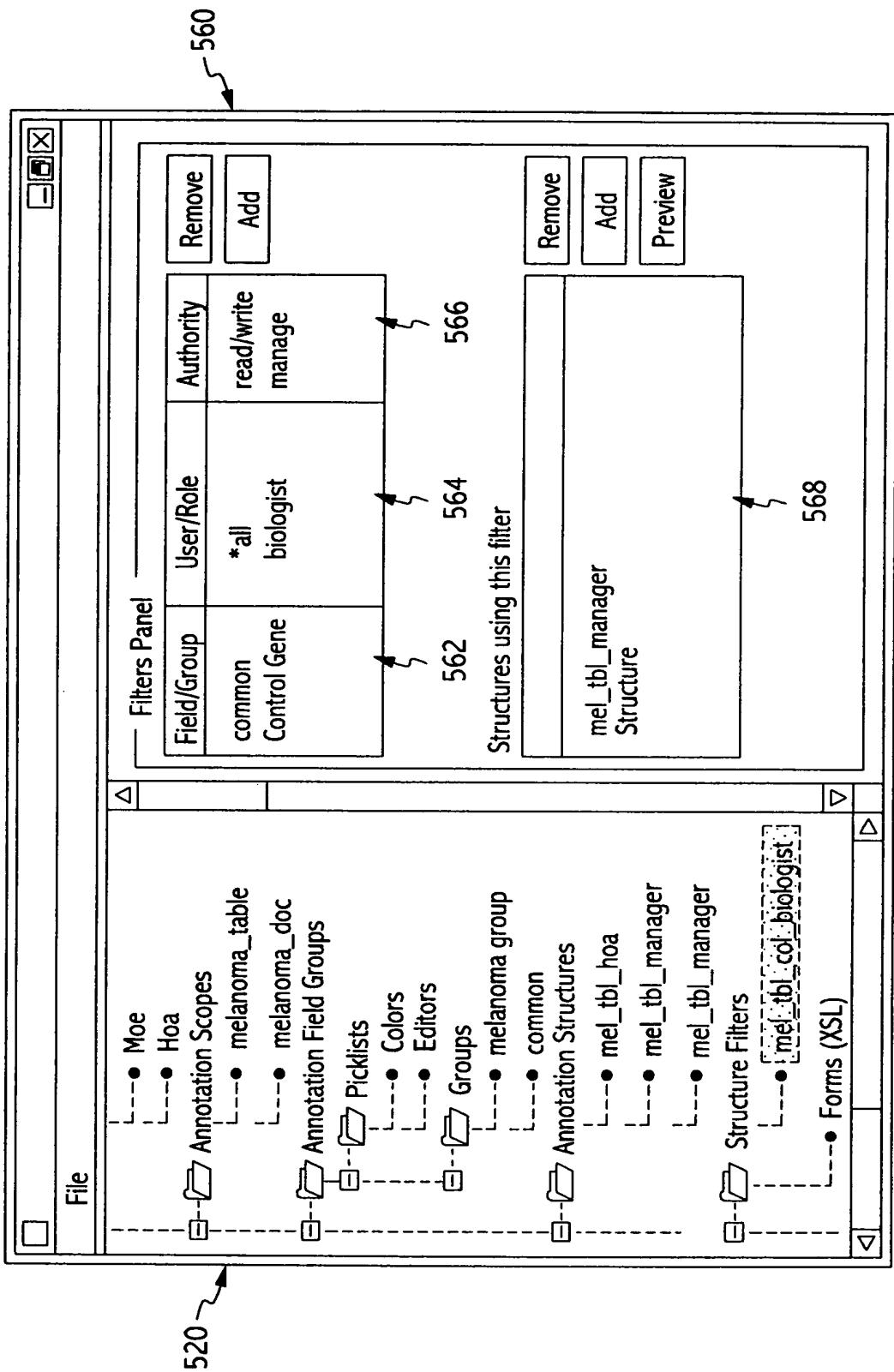


FIG. 5F

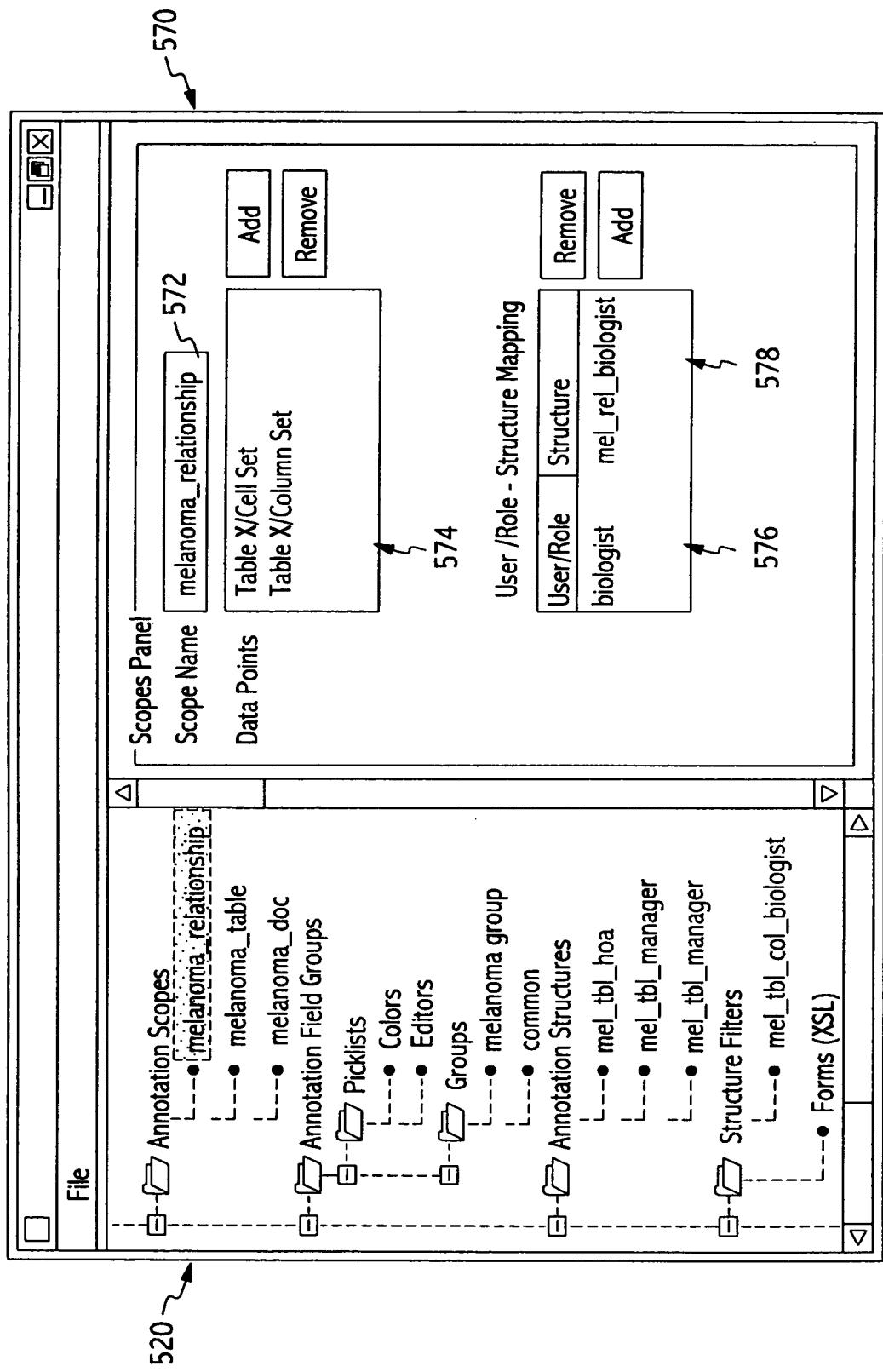


FIG. 5G

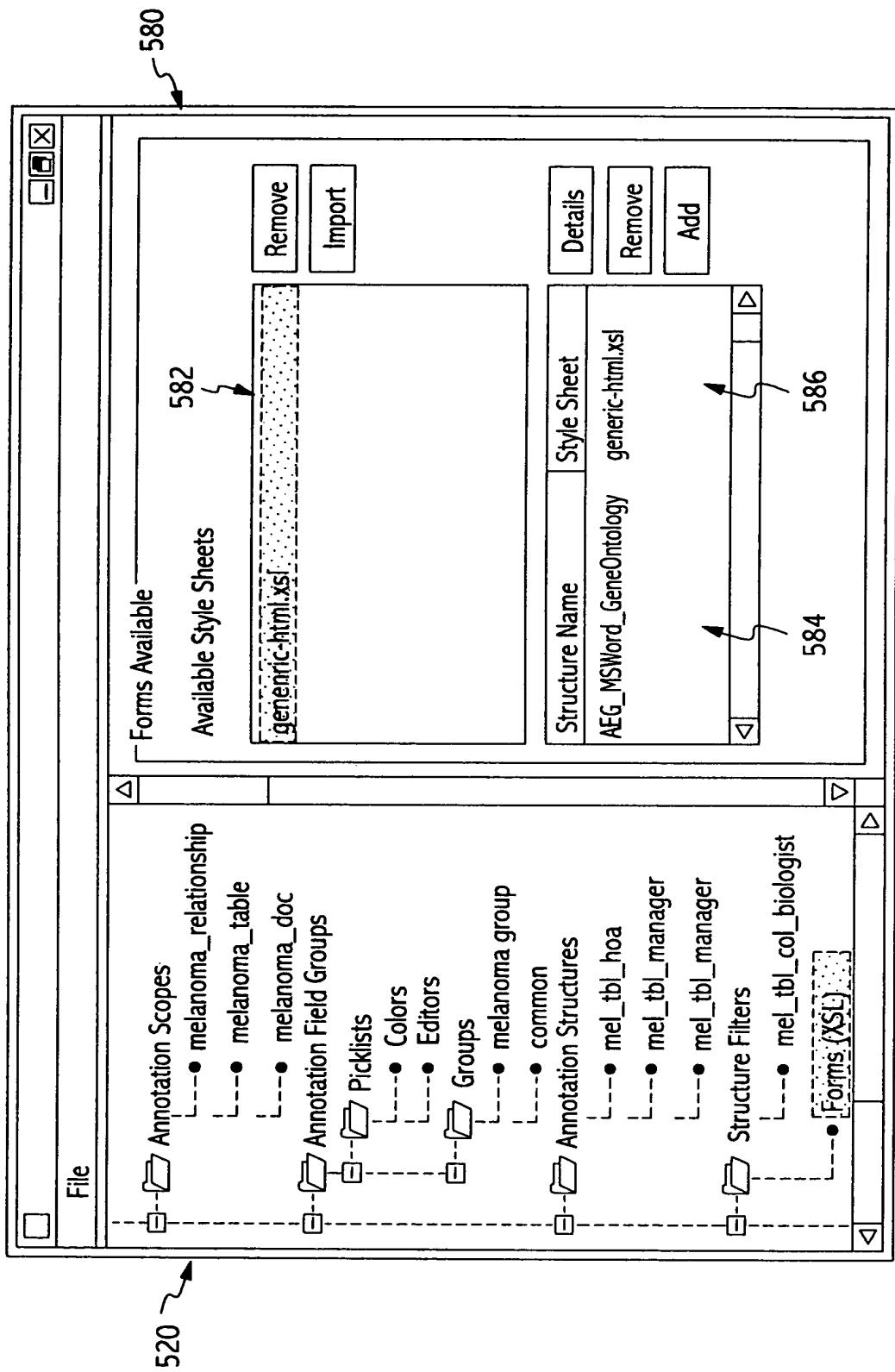


FIG. 5H

19/28

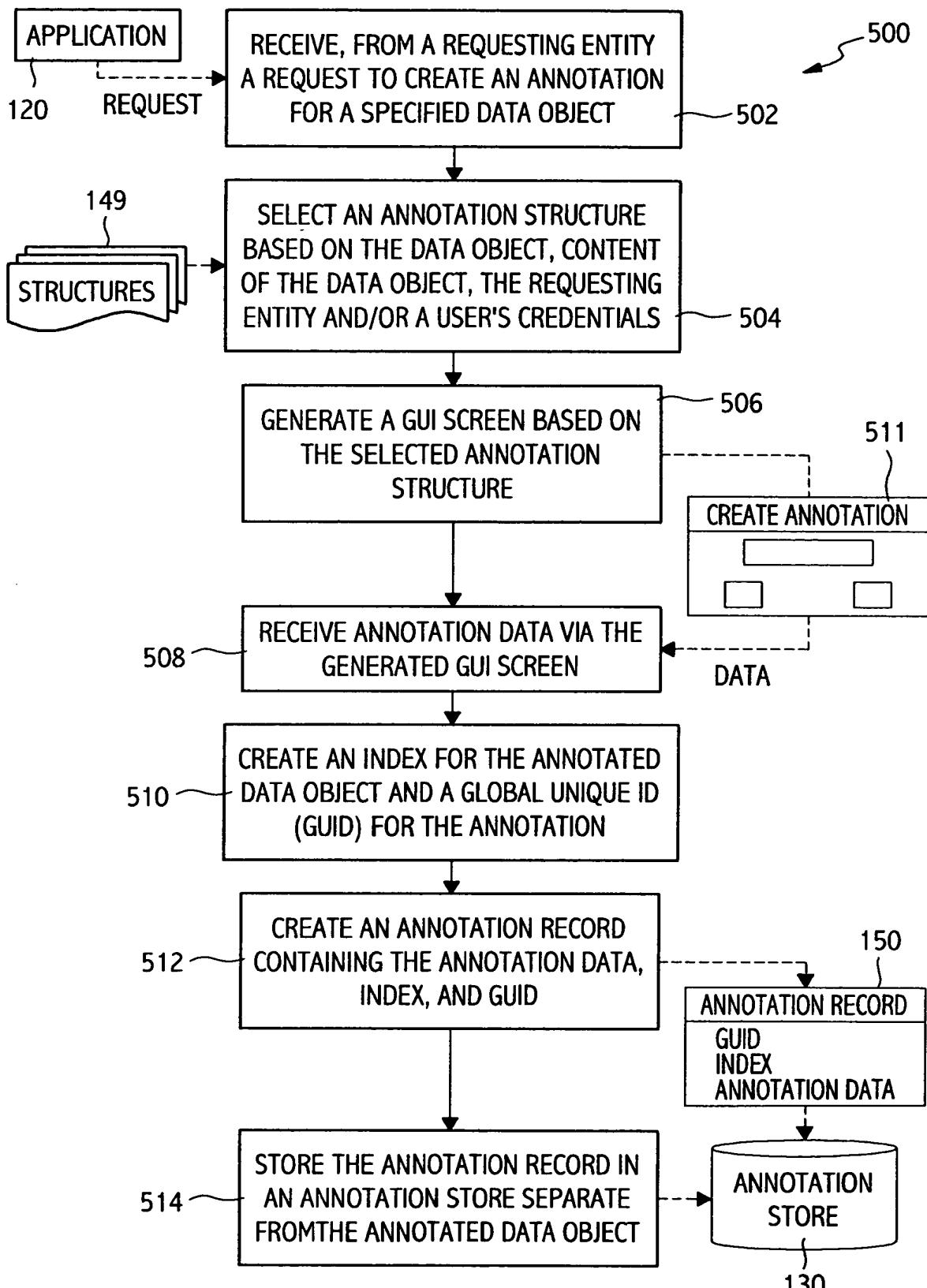


FIG. 6A

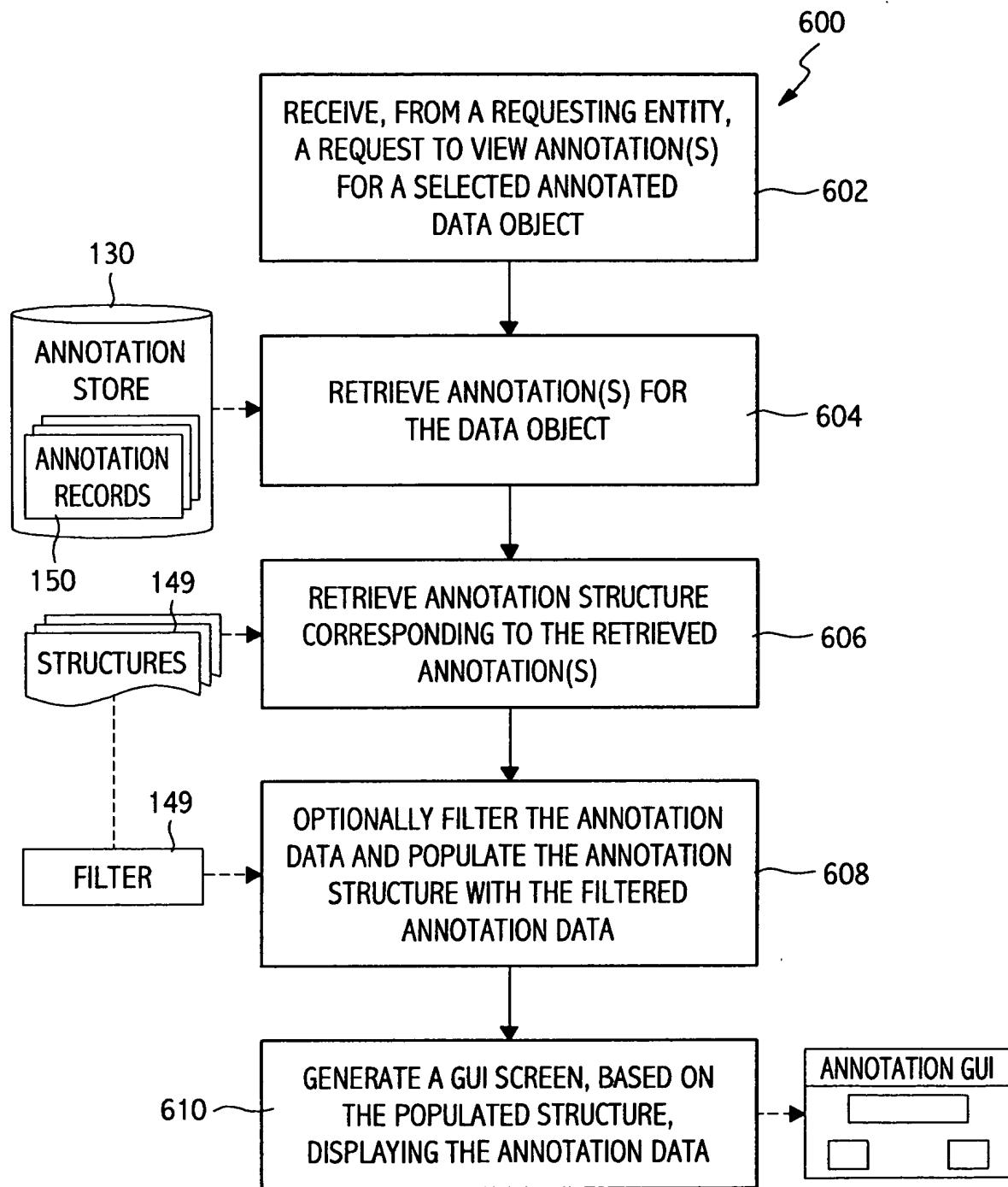


FIG. 6B

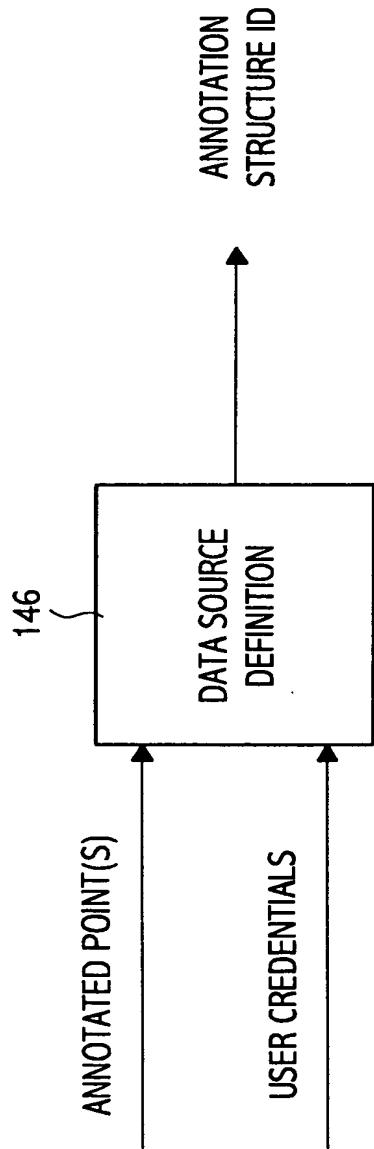


FIG. 7A

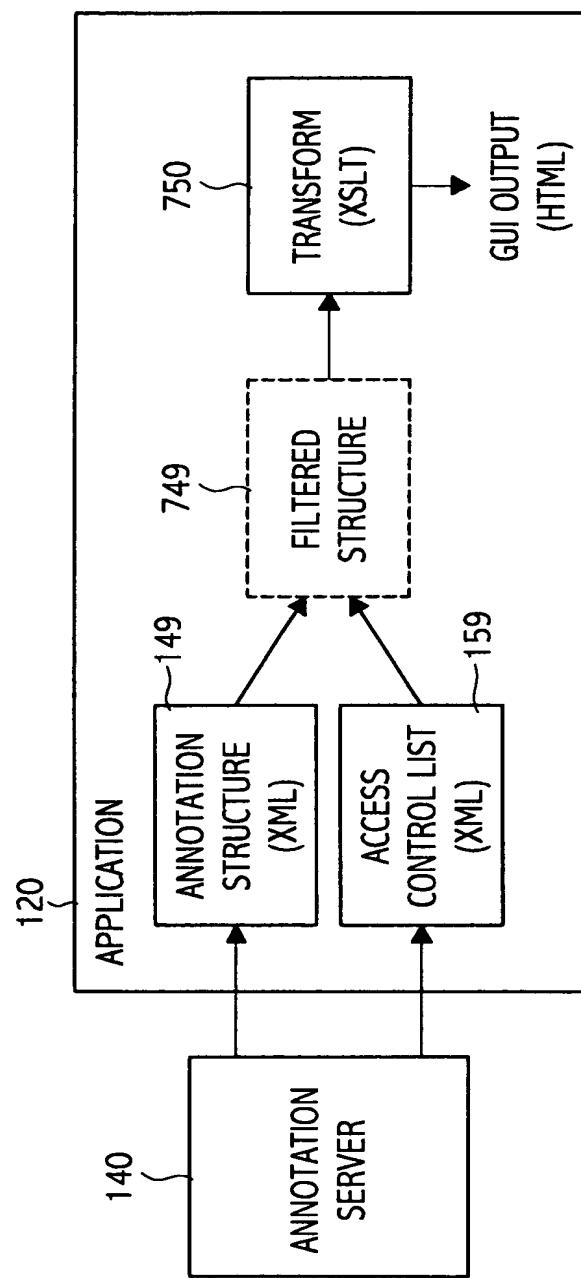


FIG. 7B

L

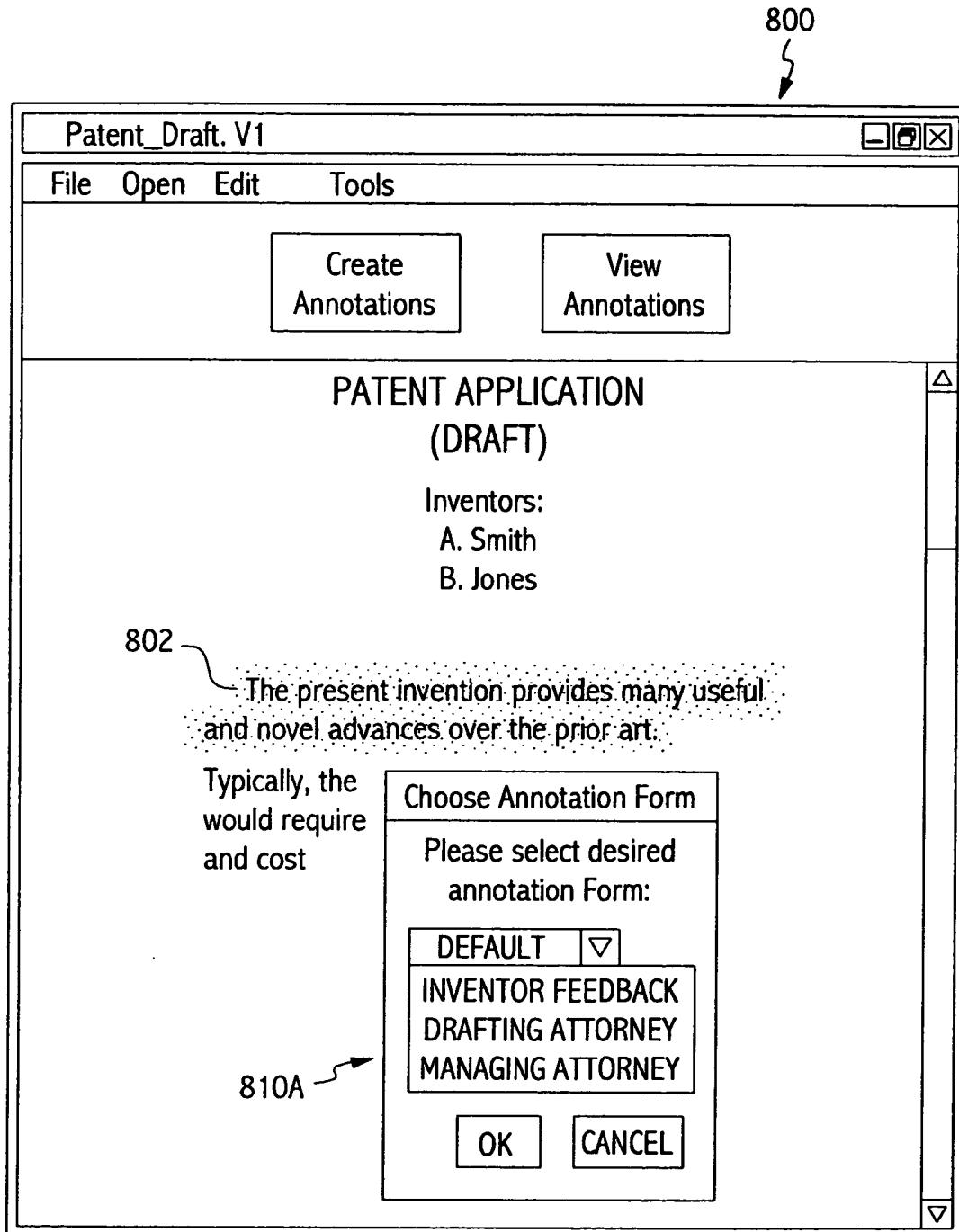


FIG. 8A

Patent_Draft. V1

FORM: **DEFAULT**

DEFAULT DATA OR DESCRIPTION:

Quality: Good
 Acceptable **812B**
 Marginal
 Poor **814B**

Keywords:

Comments:

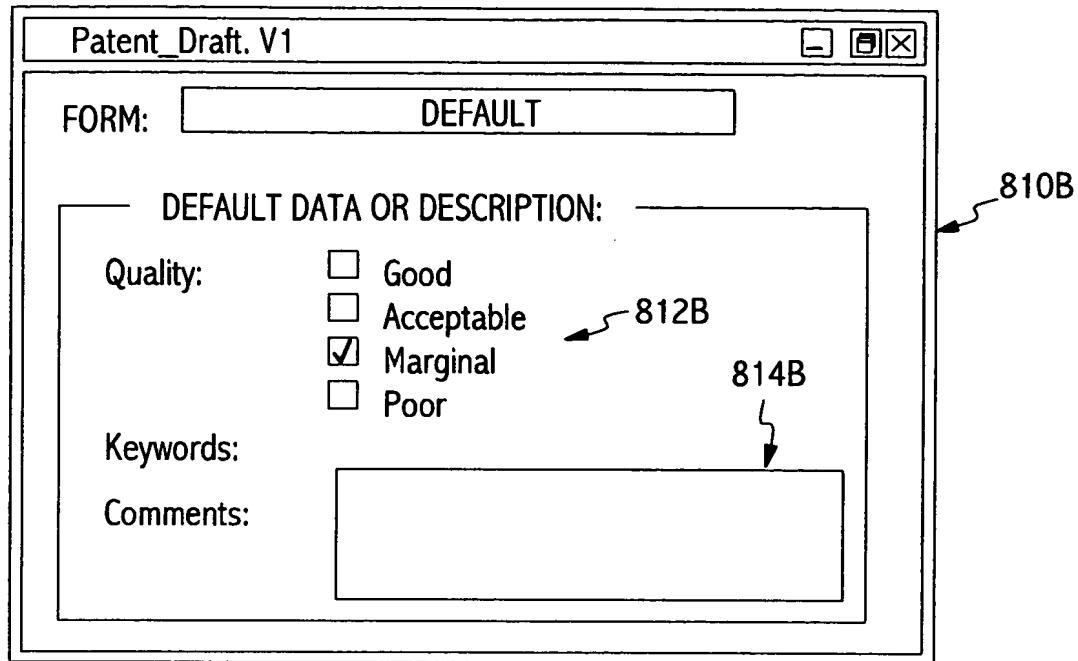


FIG. 8B

Patent_Draft. V1

FORM: **INVENTOR FEEDBACK**

DEADLINE 01/01/01

FEEDBACK

Status: Good
 Acceptable **812C**
 Needs Revision
 Needs More Info

Patent Attorney: C. Moore
Inventor: A. Smith **814C**

Inventor Comments:

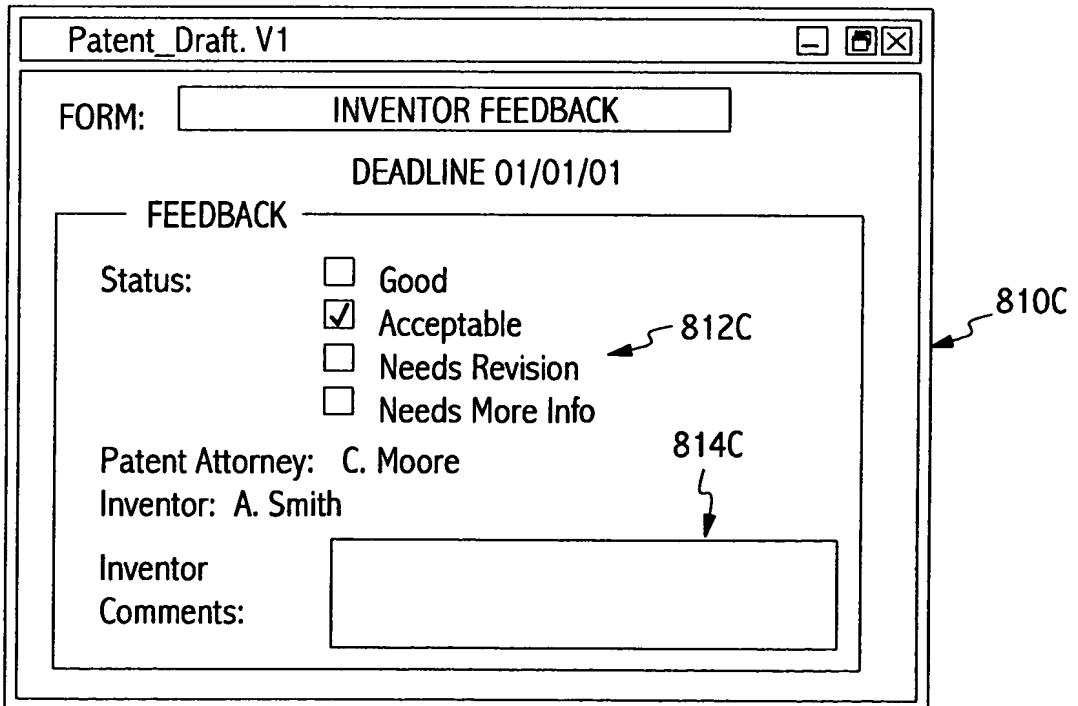


FIG. 8C

910A

Annotation Portal	
<input type="checkbox"/> Annotation Portal	<input type="checkbox"/> File <input type="checkbox"/> Edit <input type="checkbox"/> View <input type="checkbox"/> Favorites <input type="checkbox"/> Tools <input type="checkbox"/> Help
breast cancer	<input checked="" type="checkbox"/> using microarrays to study breast cancer cell lines for the purpose of target identification
150	2m
colon cancer	<input checked="" type="checkbox"/> using microarrays to study colon cancer cell lines for the purpose of target identification
	2m
leukemia	<input checked="" type="checkbox"/> using microarrays to study leukemia cell lines for the purpose of target identification
	2m

900

Annotations Form: Project Status

Annotation On: Colon Cancer
 Made By: Bob Coleman
 On: Jan. 1, 2002
 Experiment Set ID: ED01
 Revision To Experiment Scope: None
 Revision To Experiment Deadline: None
 Team Deliverable: The number of targets are unchanged. However we now
 Revision To Project Budget: None
 Project Status: Green
 Yellow
 Red

FIG. 9A

L

Annotation Portal

Annotations

Form: Data Particulars

Annotation On:	ME_SK_ME_2E
Made By:	John Petri
On:	Jan. 1, 2002
Experiment ID:	ME_SK_ME_2E
Scanner Setting:	ATF 24
Type=GenePix Results 1.3 DateTime=2001/01/02 16:52:34 Settings+E:\xxx\newcolahcose1\ GaFile=G:\xxx\ch7dngl.txt Scanner=GenePix 4000A (55448) Comment= PixelSize=10 "ImageName=35 nm 532 nm" "PMTVolts = 600 600" JpegImage=E:\mail\newcolahcose1 Creator=GenePix Pro 3.0 6.21	
150 ₁	150 ₂
melanoma	control_target_id

/demo/raw_data/ME_SK

900

910B

FIG. 9B

The screenshot shows the Annotation Portal software interface. At the top, there is a menu bar with options: Annotation Portal, File, Edit, View, Favorites, Tools, and Help. Below the menu is a toolbar with icons for Home, Welcome, and Annotation Rules. The main area is divided into sections:

- Welcome:** Displays "User: 1bata" and "Search: Unnamed".
- Annotation Browser:** Shows a list of annotations.
- SEARCH CONDITIONS:** A table for defining search criteria. It includes columns for ACTION, NOT, AND, and OUTPUT.
- ACTION:** Options include Delete, AND, NOT, OR, NOT, and OUTPUT.
- NOT:** Contains checkboxes for (PROJECT_NAME = target_identificatio-01) and (Spottire Row Relevance of Observation = Extremely High).
- AND:** Contains checkboxes for (PROJECT_NAME = target_identificatio-01) and (Spottire Row Relevance of Observation = Extremely High).
- OUTPUT:** Contains buttons for Add Condition, Group, Ungroup, Apply, and Reset.
- SEARCH:** Buttons for Change Data, Change Format, Run, Save, Show Query, and Cancel.

An annotation labeled "1040" is shown with an arrow pointing to the "NOT" section of the search conditions table. Another annotation labeled "1042" is shown with an arrow pointing to the "AND" section of the search conditions table.

FIG. 10A

1000
↓

Annotation Portal

File Edit View Favorites Tools Help

Home ▾

Welcome

Annotation Rules

Annotation Browser

User: 1bata

Search: Unnamed

ADD A SEARCH CONDITION

SEARCHABLE DATA FIELDS

<input type="radio"/> Project	PROJECT_ID ▾
<input type="radio"/> Column Name	PROJECT_ID ▾
<input type="radio"/> Experiment	EXPT_SET_NAME ▾
<input type="radio"/> experiment_set	EXPT_SET_ID ▾
<input type="radio"/> data_sets	PROCESS_ID ▾

1010
→

SEARCHABLE ANNOTATION FIELDS

<input type="radio"/> Annotation	Link ID ▾
<input type="radio"/> Annotation Data	GUID ▾
<input type="radio"/> Suggested Analysis Methods	Key ▾
<input type="radio"/> Reference Data	Key ▾
<input type="radio"/> Keyword Data	Key ▾

1020
→

Next Cancel

▼

FIG. 10B

1000

Annotation Portal

File Edit View Favorites Tools Help

Home ▾

Welcome

Annotation Rules

Annotation Browser

User: 1bata

Search: Unnamed

ADD A SEARCH CONDITION

SEARCHABLE DATA FIELDS	
<input type="radio"/> Project	PROJECT_ID ▾
<input type="radio"/> Column Name	PROJECT_ID ▾
<input type="radio"/> Experiment	EXPT_SET_NAME ▾
<input type="radio"/> experiment_set	EXPT_SET_ID ▾
<input type="radio"/> data_sets	PROCESS_ID ▾

1010

SEARCHABLE ANNOTATION FIELDS	
<input type="radio"/> Annotation	Link ID ▾
<input checked="" type="radio"/> Annotation Data	GUID ▾
<input type="radio"/> Suggested Analysis Methods	Describe Gene
<input type="radio"/> Reference Data	Functional Theme in Cluster
<input type="radio"/> Keyword Data	Spotfire Row Relevance of Observation

1020

1030

Next Cancel

Spotfire Row Comments

Observation

Spotfire Row Relevance of Observation

FIG. 10C